

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\  
 Data File : VX004549.D  
 Acq On : 14 Sep 2018 19:20  
 Operator : JC/MD  
 Sample : J4913-07  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPSI-TT-MW303D-20180912

Quant Time: Sep 15 04:43:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 12 02:17:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 265316   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 368138   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 341860   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 189247   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 173195   | 50.63 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.26% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 157679   | 46.81 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.62%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 541456   | 47.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.86%  |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 181470   | 45.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.00%  |      |

## Target Compounds

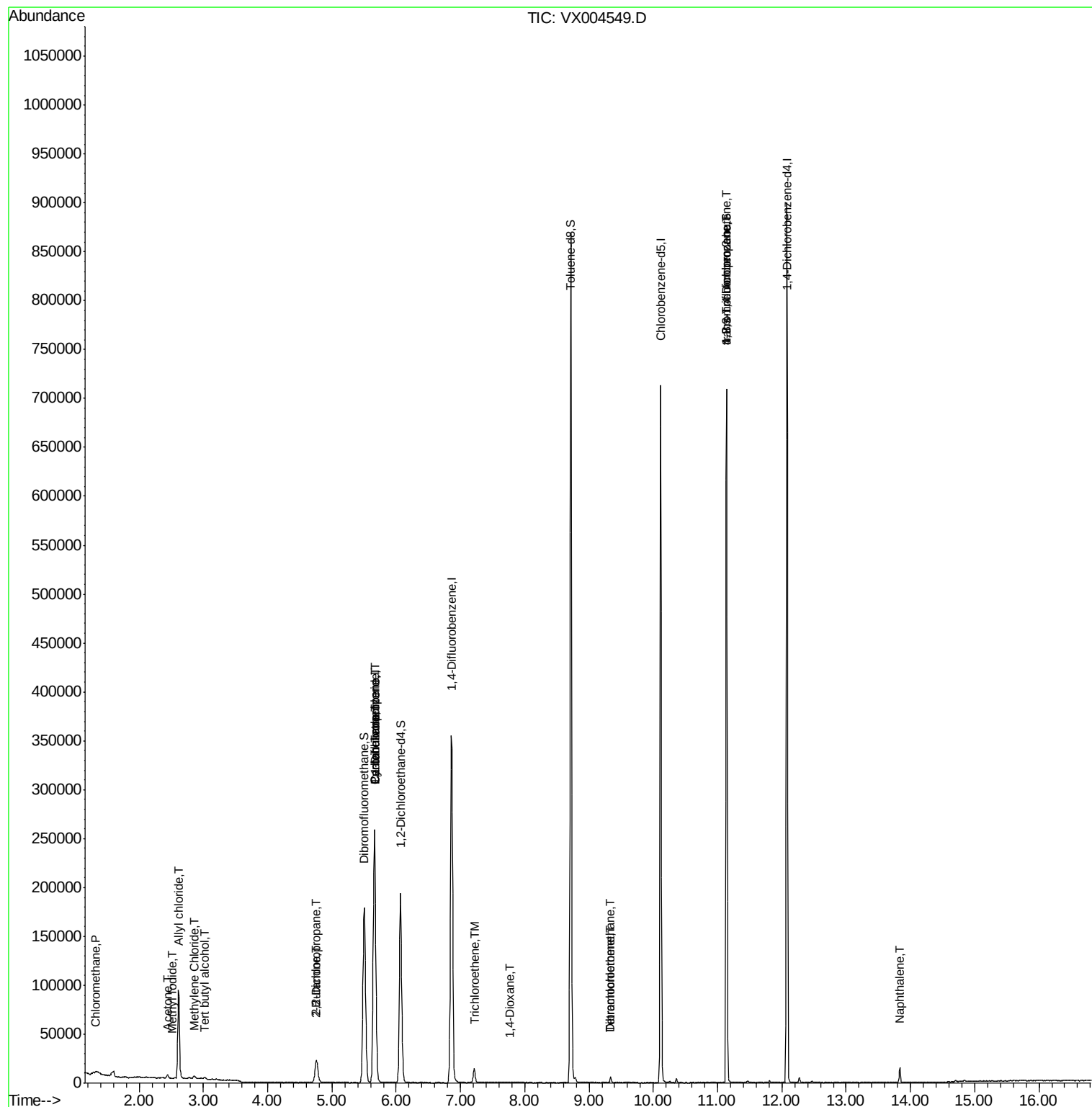
|                                |       |     |       |       |        | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50  | 736   | 0.22  | ug/l   | 97     |
| 5) Bromomethane                | 1.65  | 94  | 486   | Below | Cal    | 81     |
| 10) Methyl Iodide              | 2.51  | 142 | 136   | 4.29  | ug/l # | 41     |
| 11) Tert butyl alcohol         | 3.02  | 59  | 1179  | 1.44  | ug/l # | 72     |
| 14) Allyl chloride             | 2.62  | 41  | 8390  | 1.47  | ug/l # | 64     |
| 16) Acetone                    | 2.44  | 43  | 3595  | 2.15  | ug/l   | 97     |
| 20) Methylene Chloride         | 2.85  | 84  | 1210  | 0.35  | ug/l   | 88     |
| 25) 2-Butanone                 | 4.74  | 43  | 1467  | 0.55  | ug/l # | 47     |
| 26) 2,2-Dichloropropane        | 4.76  | 77  | 2053  | 0.52  | ug/l # | 52     |
| 31) Cyclohexane                | 5.66  | 56  | 4270  | 0.86  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 17798 | 3.98  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 23584 | 5.40  | ug/l # | 16     |
| 44) Trichloroethene            | 7.21  | 130 | 6049  | 1.76  | ug/l   | 98     |
| 49) 1,4-Dioxane                | 7.76  | 88  | 28    | 0.35  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129 | 1056  | 0.33  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164 | 1091  | 0.26  | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 84908 | 22.30 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 84908 | 71.08 | ug/l # | 10     |
| 95) Naphthalene                | 13.83 | 128 | 10848 | 0.84  | ug/l   | 99     |

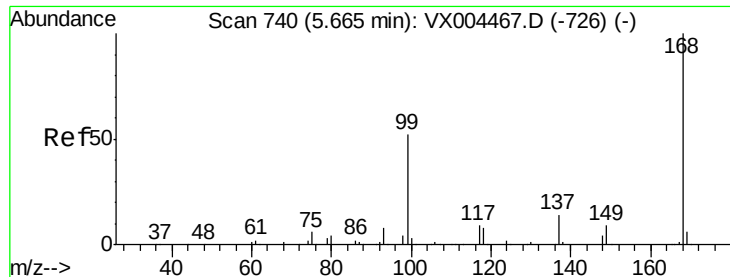
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091418\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091118W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 12 02:17:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

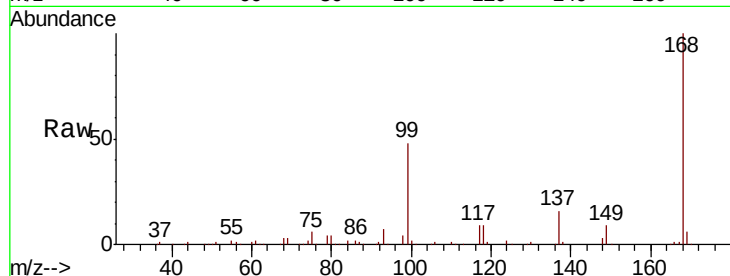
BPSI-TT-MW303D-20180912

Tot Ion:168 Resp: 265316

Ion Ratio Lower Upper

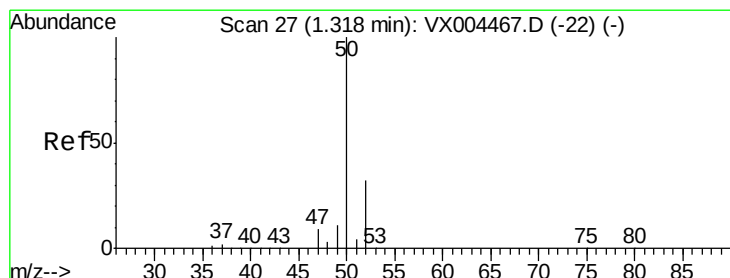
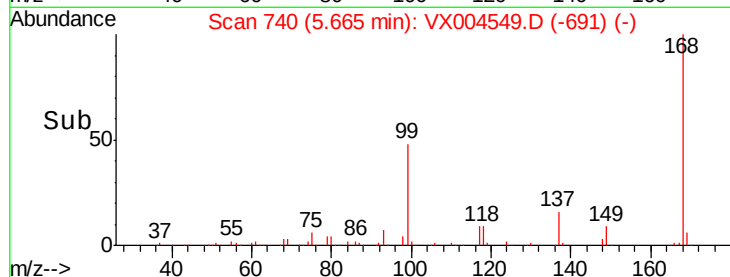
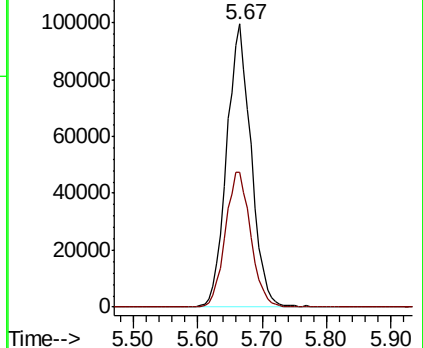
168 100

99 47.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004549.D

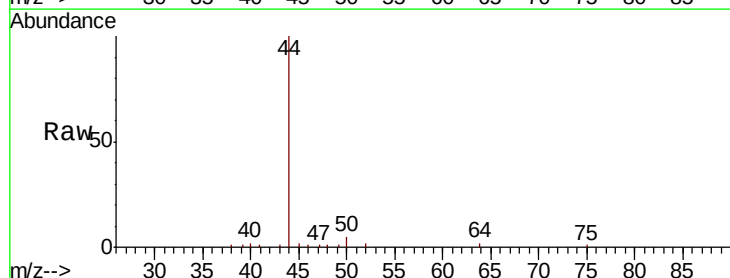
Acq: 14 Sep 2018 19:20

Tgt Ion: 50 Resp: 736

Ion Ratio Lower Upper

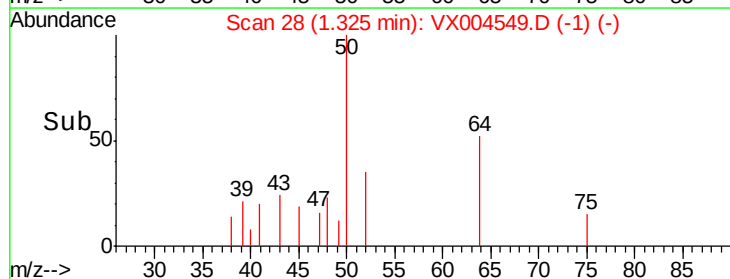
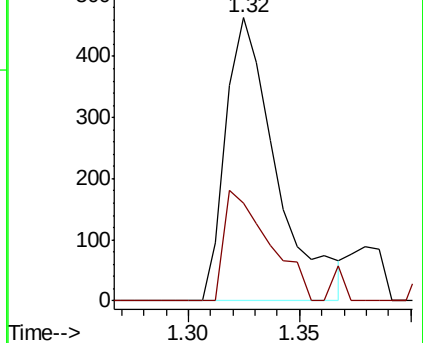
50 100

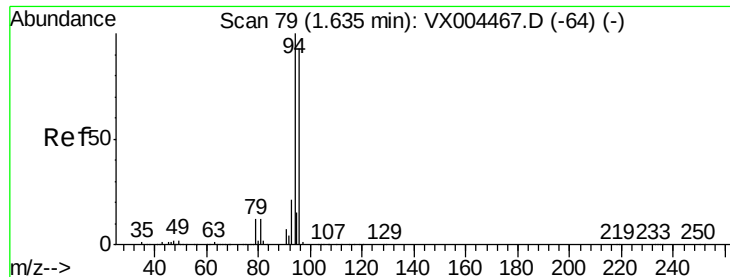
52 34.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

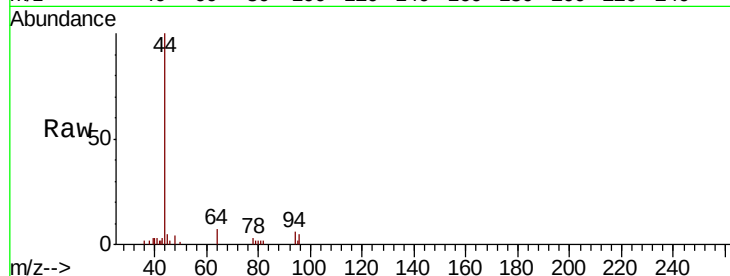
BPSI-TT-MW303D-20180912

Tot Ion: 94 Resp: 486

Ion Ratio Lower Upper

94 100

96 75.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

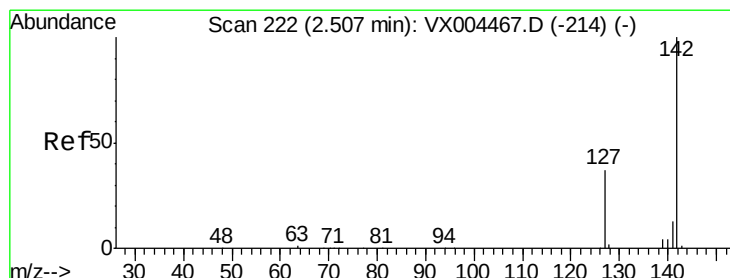
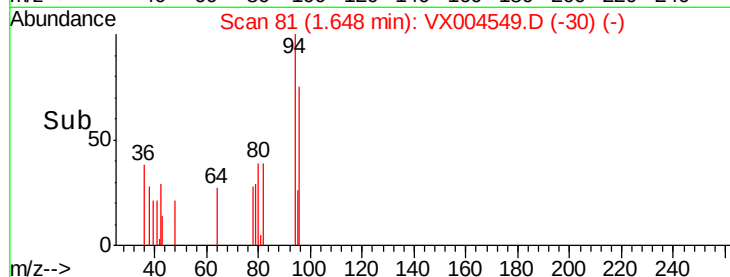
150

100

50

0

Time-->



#10

Methyl Iodide

Concen: 4.29 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

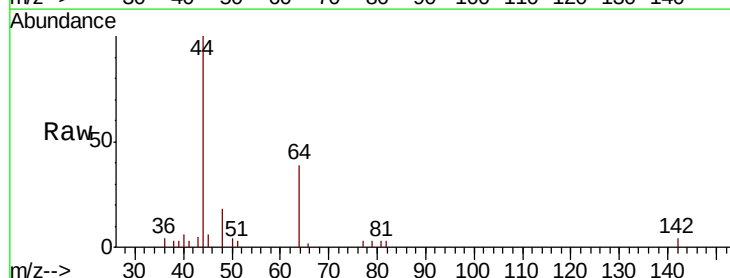
Tgt Ion: 142 Resp: 136

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

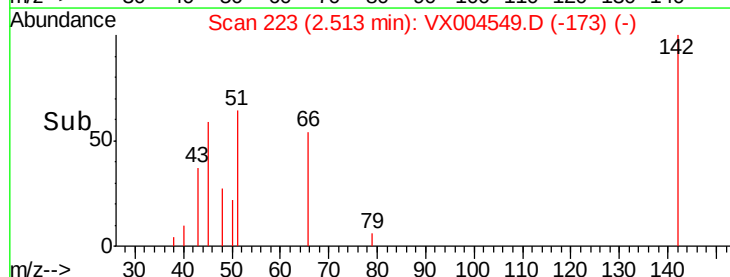
2.51

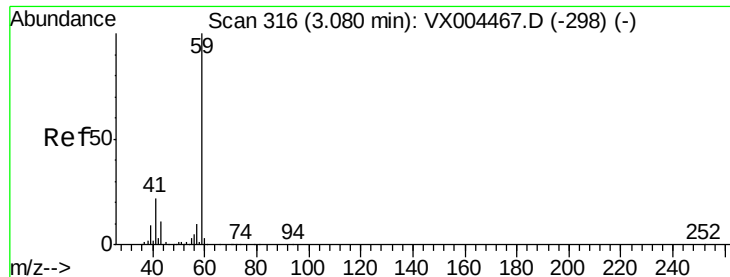
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 1.44 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

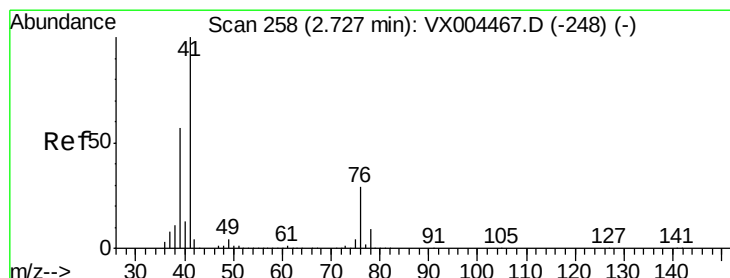
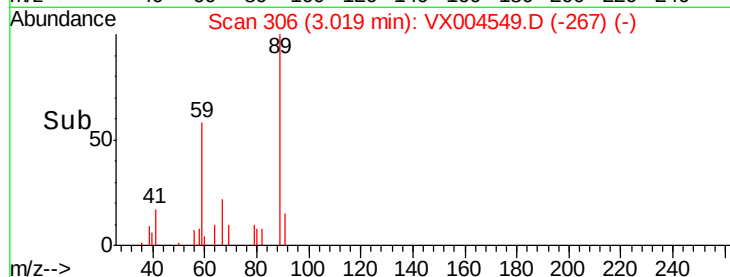
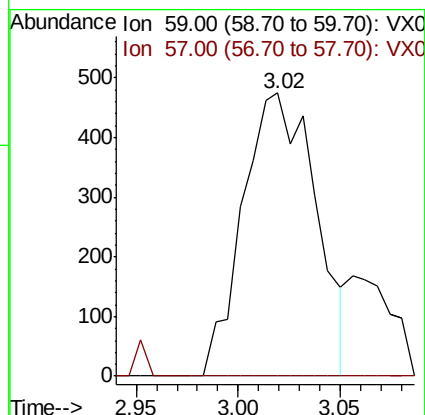
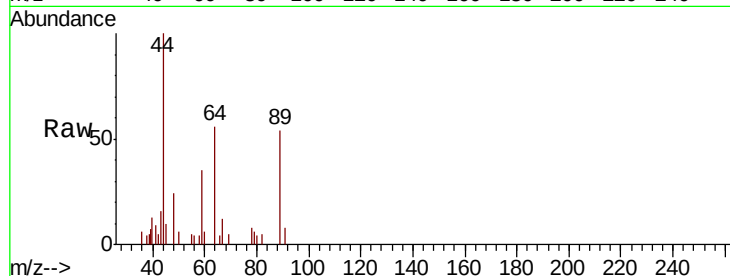
BPSI-TT-MW303D-20180912

Tot Ion: 59 Resp: 1179

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#14

Allyl chloride

Concen: 1.47 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

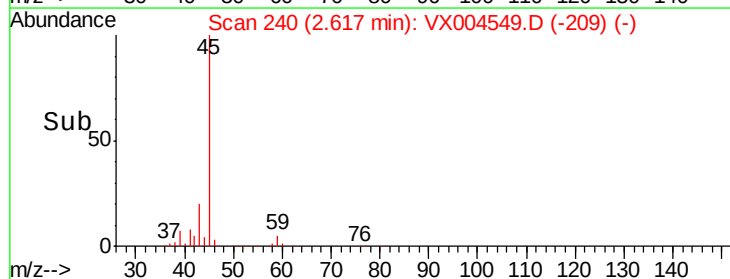
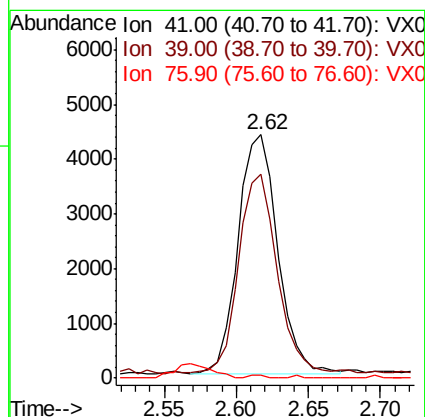
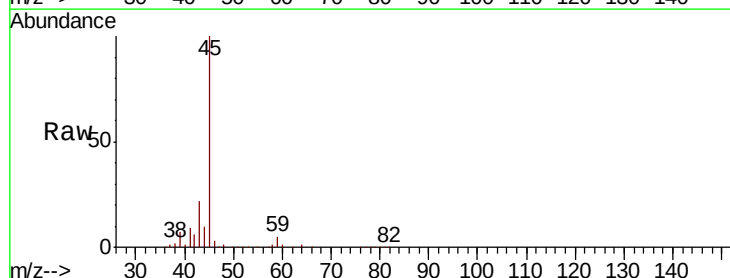
Tgt Ion: 41 Resp: 8390

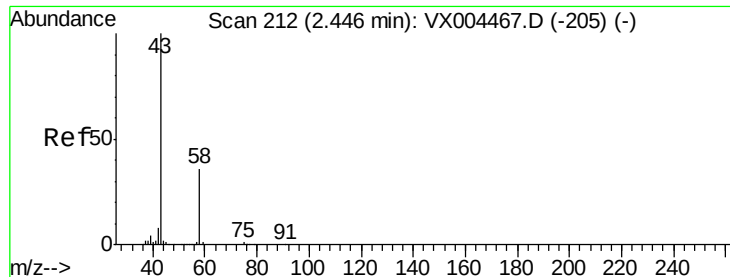
Ion Ratio Lower Upper

41 100

39 80.0 48.9 73.3#

76 0.5 26.7 40.1#

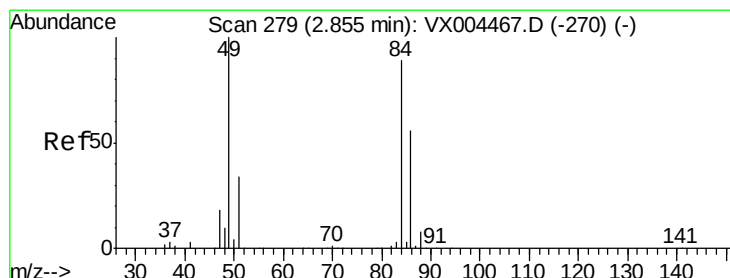
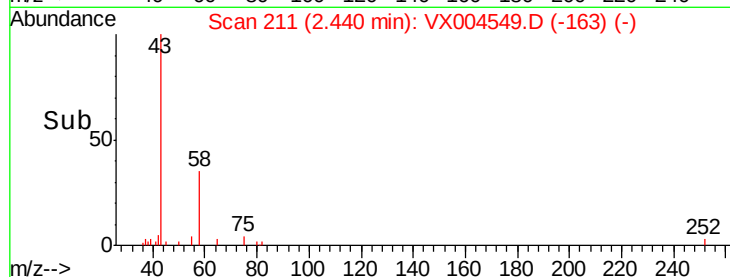
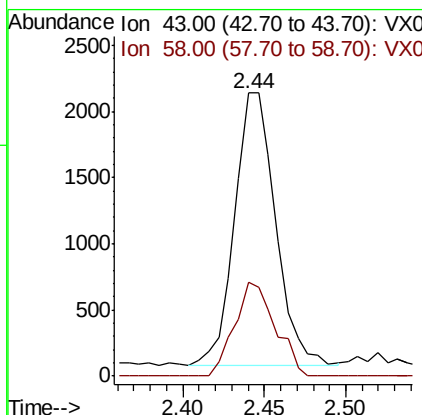
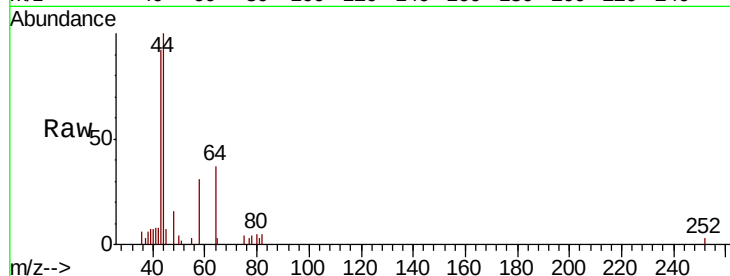




#16  
Acetone  
Concen: 2.15 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. -0.01 min  
Lab File: VX004549.D  
Acq: 14 Sep 2018 19:20

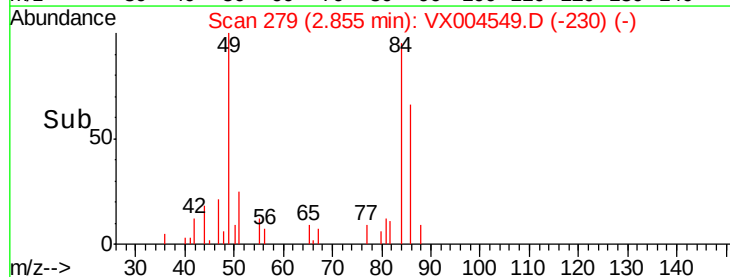
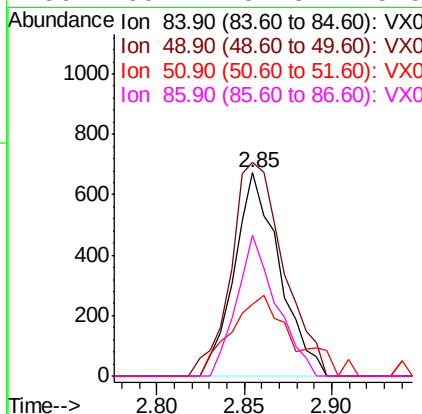
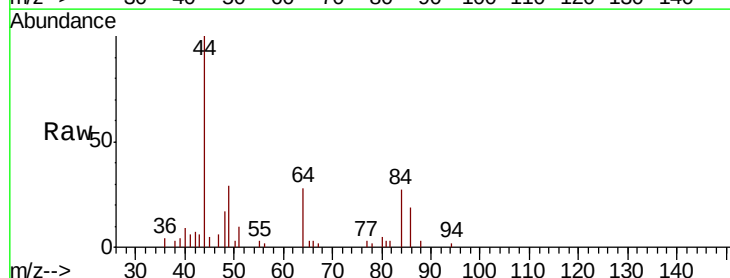
Instrument :  
MSVOA\_X  
ClientSampleId :  
BPSI-TT-MW303D-20180912

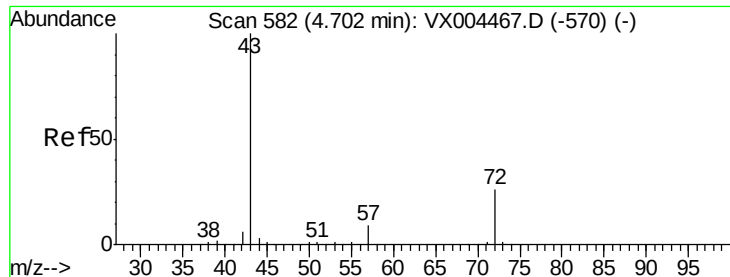
Tot Ion: 43 Resp: 3595  
Ion Ratio Lower Upper  
43 100  
58 34.7 26.2 39.4



#20  
Methylene Chloride  
Concen: 0.35 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. 0.00 min  
Lab File: VX004549.D  
Acq: 14 Sep 2018 19:20

Tgt Ion: 84 Resp: 1210  
Ion Ratio Lower Upper  
84 100  
49 105.1 101.2 151.8  
51 35.5 29.5 44.3  
86 69.4 52.3 78.5





#25

2-Butanone

Concen: 0.55 ug/l

RT: 4.74 min Scan# 589

Delta R.T. 0.04 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

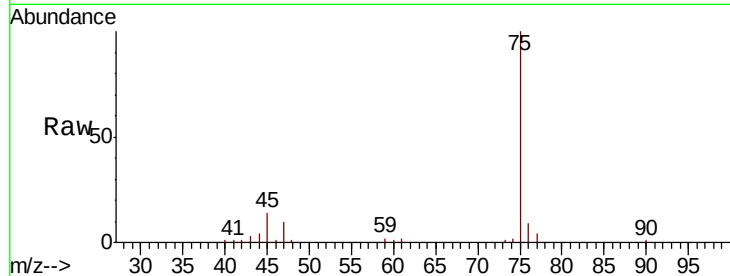
BPSI-TT-MW303D-20180912

Tot Ion: 43 Resp: 1467

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

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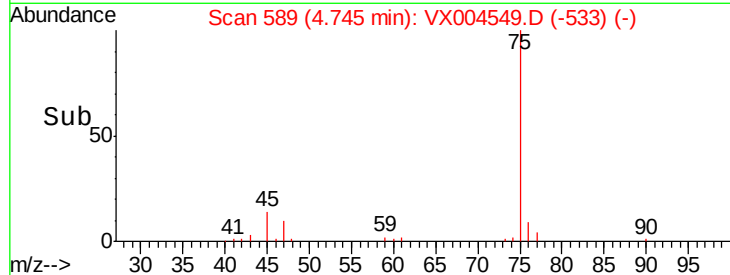
4.74

4.74

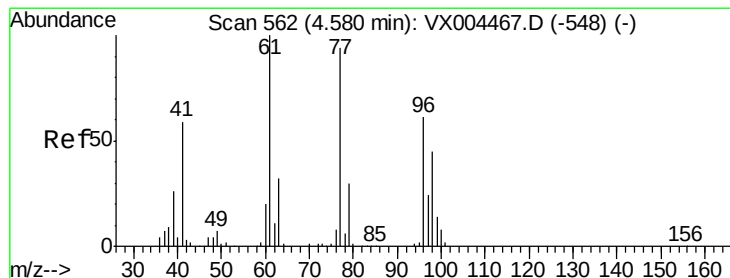
4.74

4.74

4.74



Time-->



#26

2,2-Dichloropropane

Concen: 0.52 ug/l

RT: 4.76 min Scan# 592

Delta R.T. 0.18 min

Lab File: VX004549.D

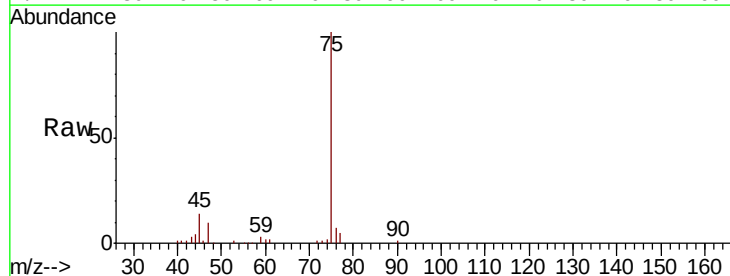
Acq: 14 Sep 2018 19:20

Tgt Ion: 77 Resp: 2053

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.76

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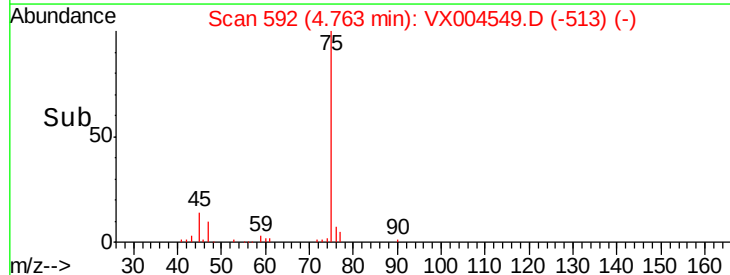
4.76

4.76

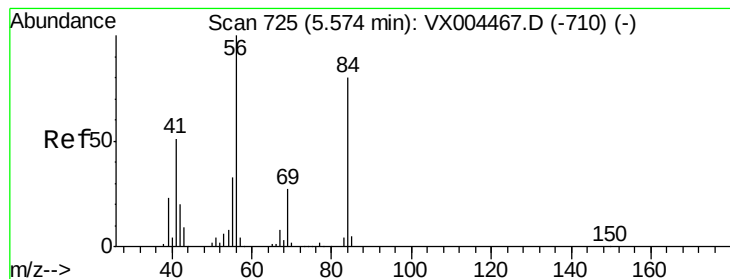
4.76

4.76

4.76



Time-->



#31

Cyclohexane

Concen: 0.86 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004549.D

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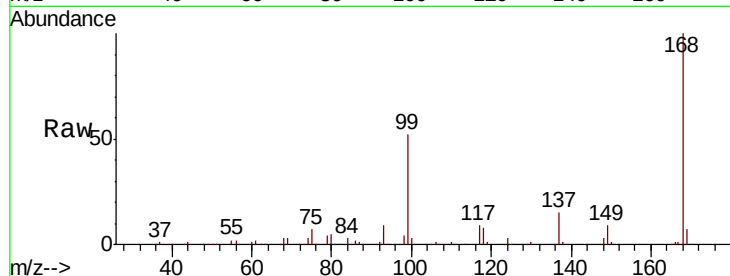
Tot Ion: 56 Resp: 4270

Ion Ratio Lower Upper

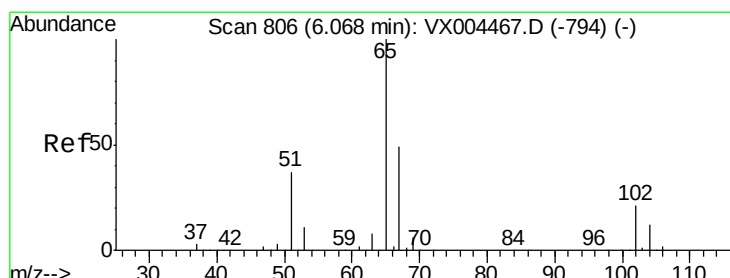
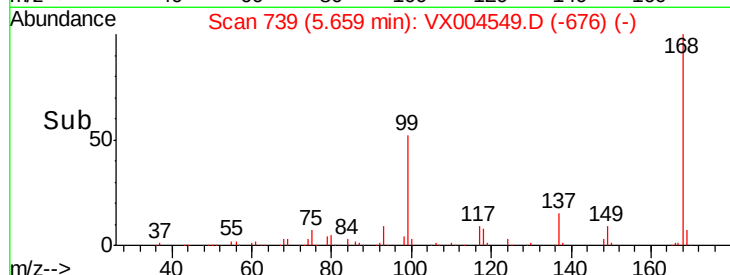
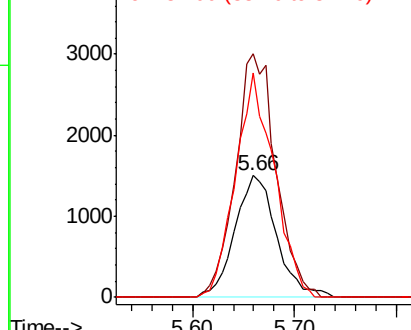
56 100

69 200.0 25.4 38.2#

84 184.4 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.63 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004549.D

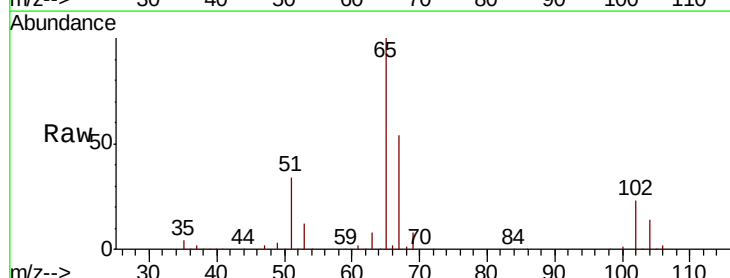
Acq: 14 Sep 2018 19:20

Tgt Ion: 65 Resp: 173195

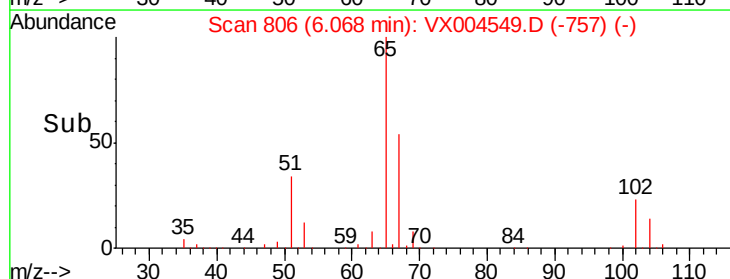
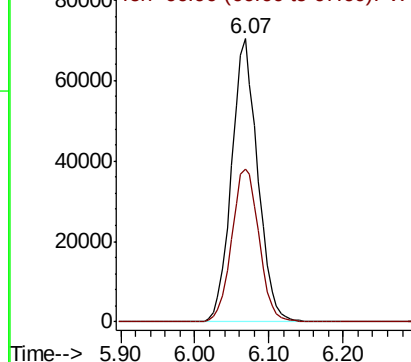
Ion Ratio Lower Upper

65 100

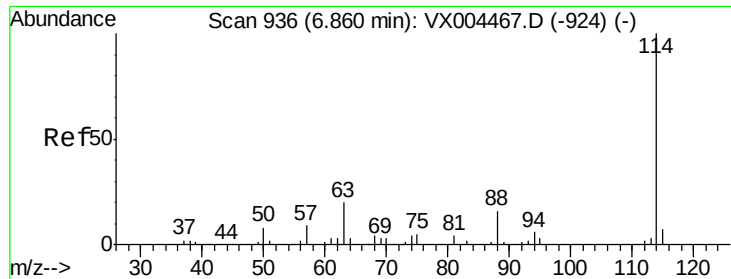
67 56.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0



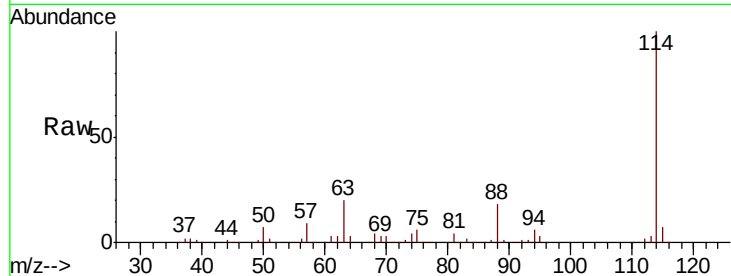




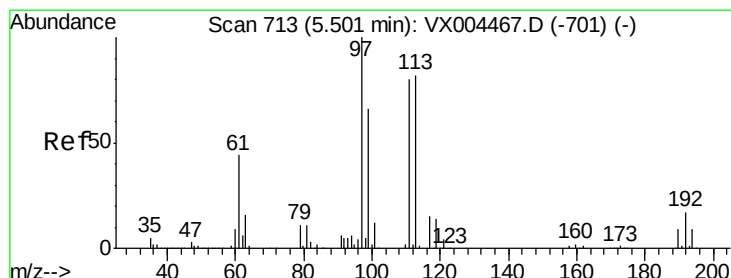
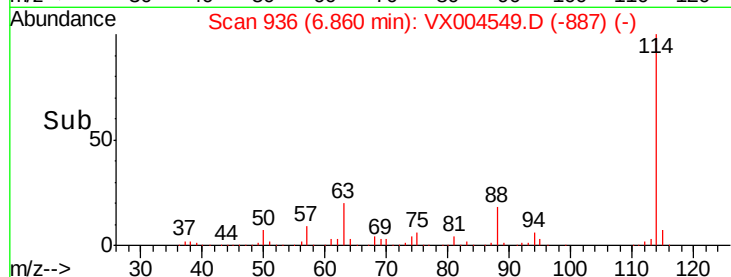
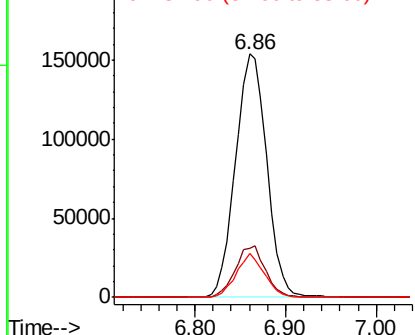
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX004549.D  
 Acq: 14 Sep 2018 19:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPSI-TT-MW303D-20180912

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.1  | 0.0   | 39.0  |
| 88      | 18.1  | 0.0   | 30.4  |

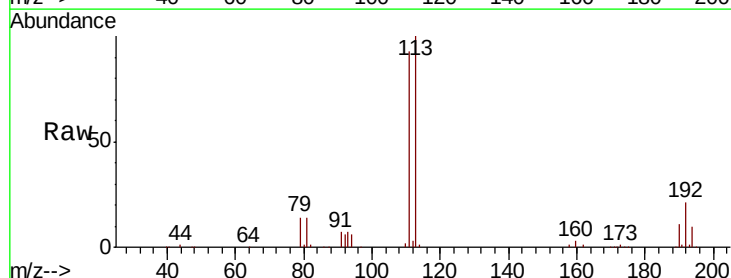


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

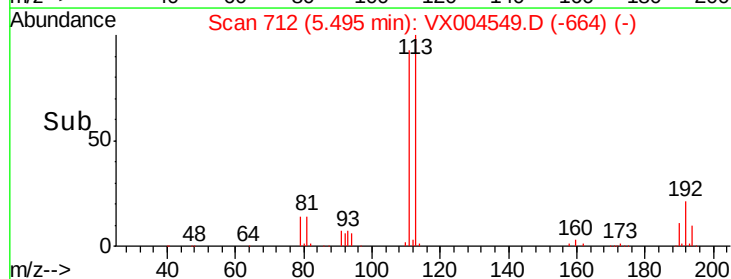
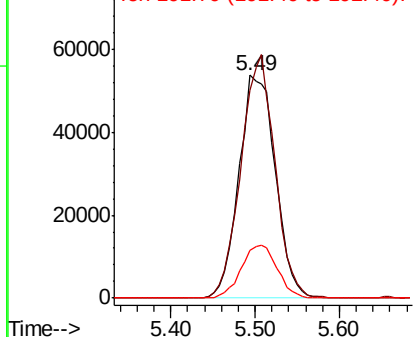


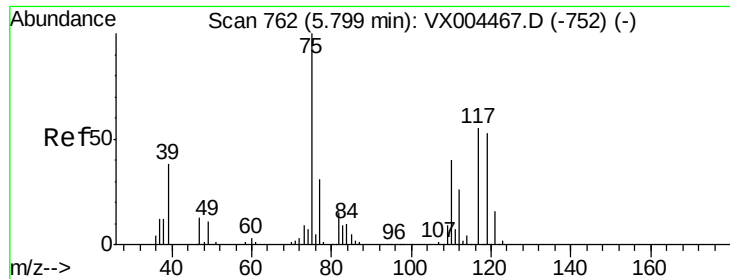
#35  
 Dibromofluoromethane  
 Concen: 46.81 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.01 min  
 Lab File: VX004549.D  
 Acq: 14 Sep 2018 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.6 | 82.4  | 123.6 |
| 192     | 23.4  | 19.4  | 29.2  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

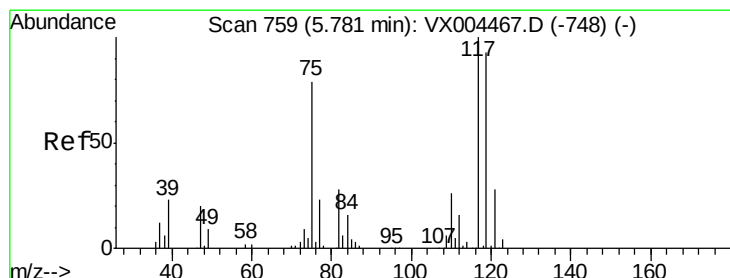
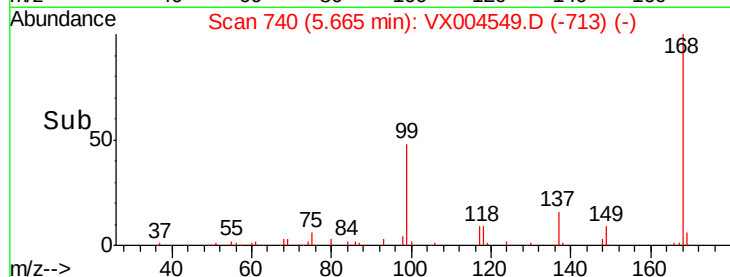
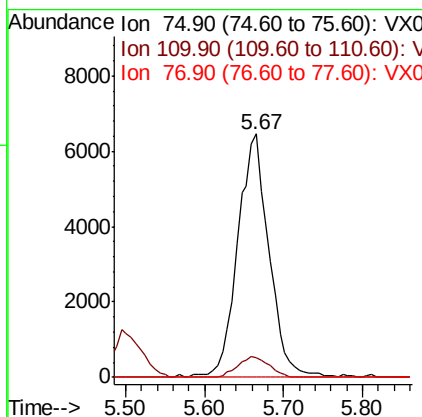
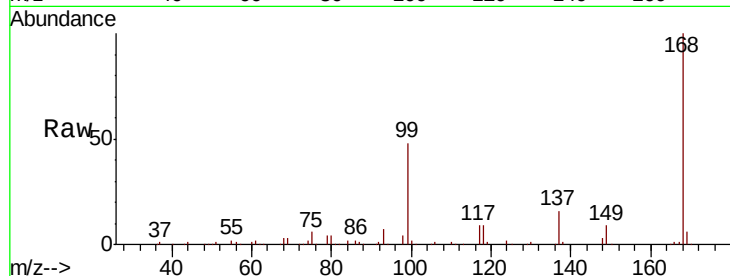




#36  
 1,1-Dichloropropene  
 Concen: 3.98 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX004549.D  
 Acq: 14 Sep 2018 19:20

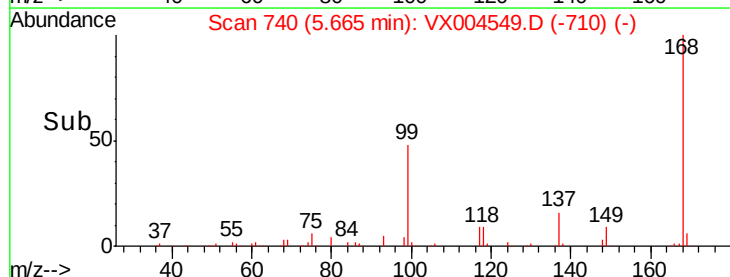
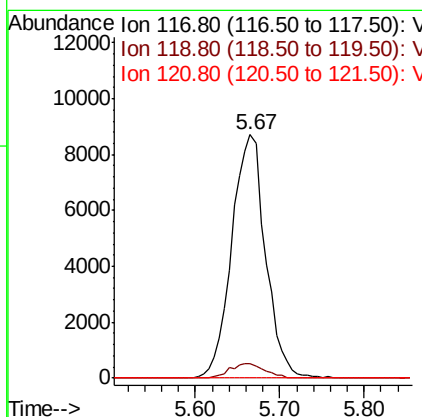
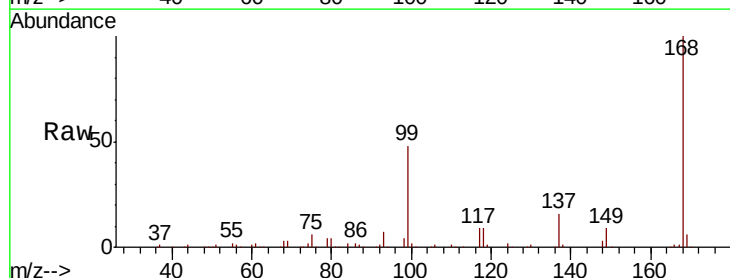
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPSI-TT-MW303D-20180912

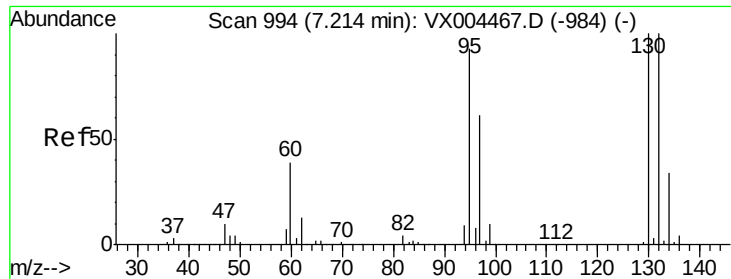
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 18.0  | 54.0# |
| 77      | 0.0   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.40 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.12 min  
 Lab File: VX004549.D  
 Acq: 14 Sep 2018 19:20

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.2   | 78.8  | 118.2# |
| 121     | 0.0   | 24.9  | 37.3#  |





#44

Trichloroethene

Concen: 1.76 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

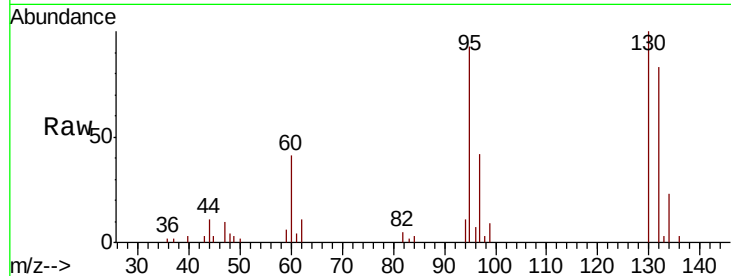
BPSI-TT-MW303D-20180912

Tot Ion:130 Resp: 6049

Ion Ratio Lower Upper

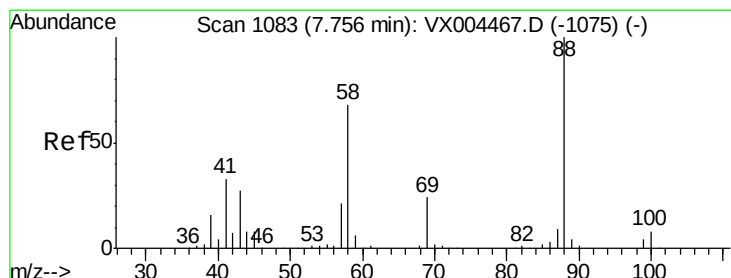
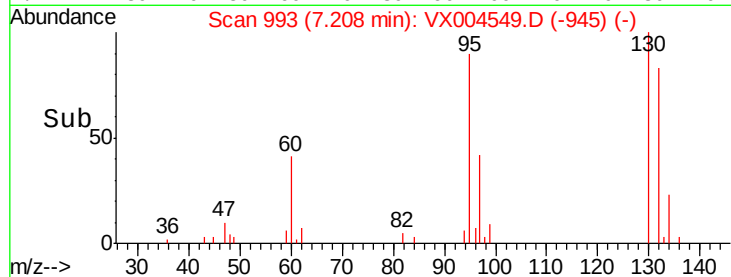
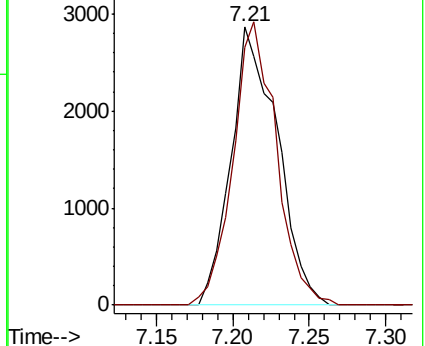
130 100

95 92.6 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.35 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

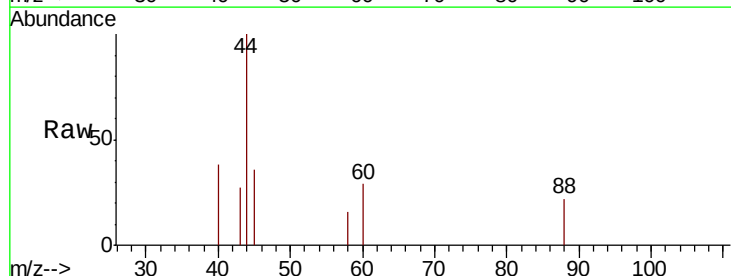
Tgt Ion: 88 Resp: 28

Ion Ratio Lower Upper

88 100

43 110.7 24.7 37.1#

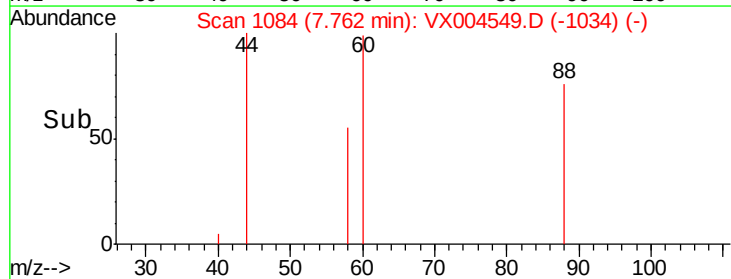
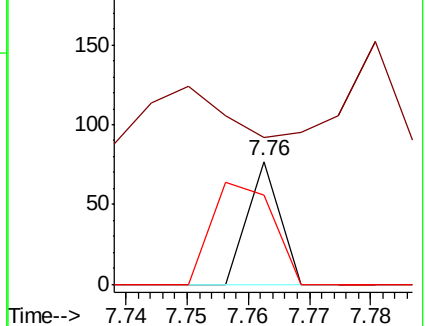
58 157.1 55.3 82.9#

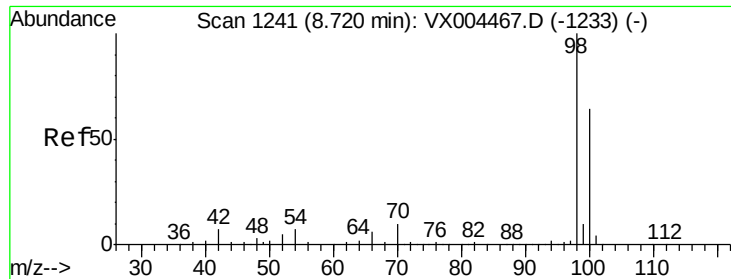


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.93 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

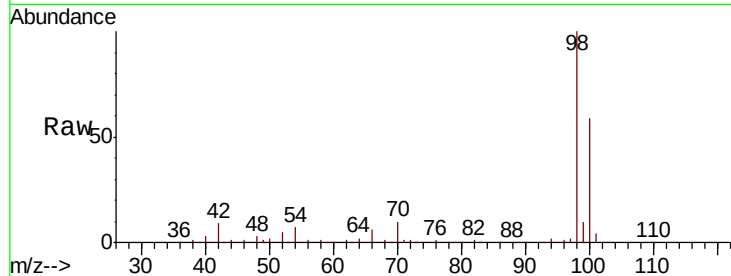
BPSI-TT-MW303D-20180912

Tot Ion: 98 Resp: 541456

Ion Ratio Lower Upper

98 100

100 63.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX004467.D (-1233) (-)

Ion 100.00 (99.70 to 100.70): VX004467.D (-1233) (-)

8.71

400000

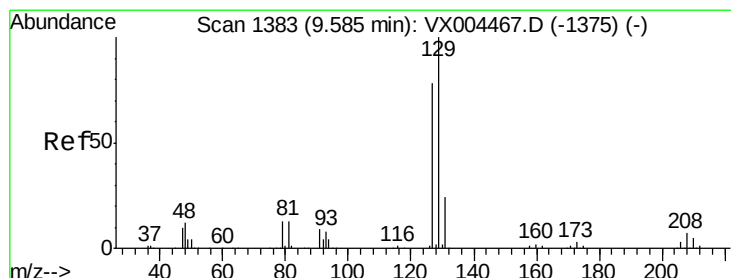
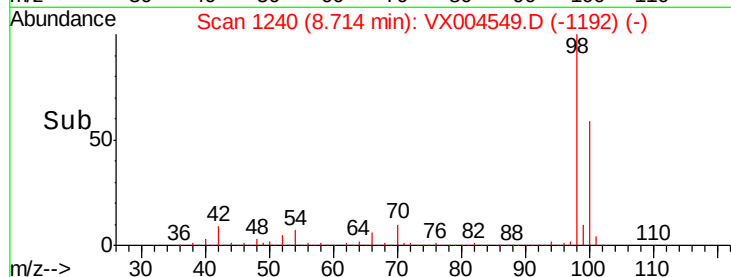
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 0.33 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX004549.D

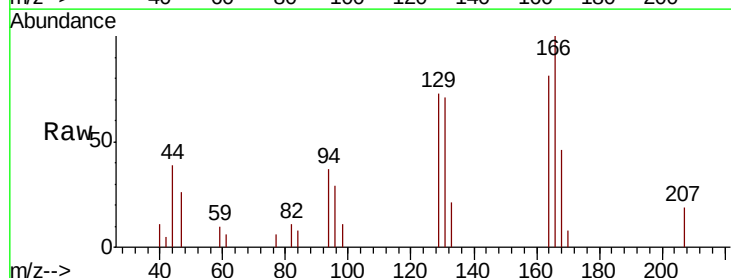
Acq: 14 Sep 2018 19:20

Tgt Ion: 129 Resp: 1056

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VX004467.D (-1375) (-)

Ion 126.80 (126.50 to 127.50): VX004467.D (-1375) (-)

9.34

800

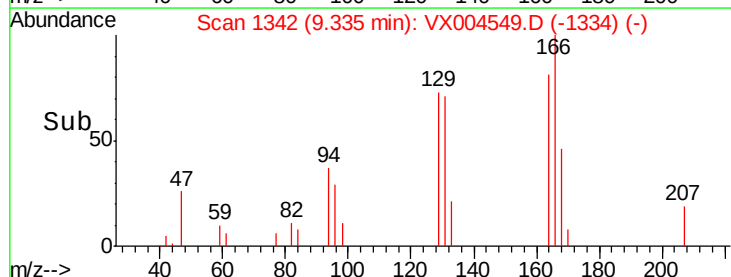
600

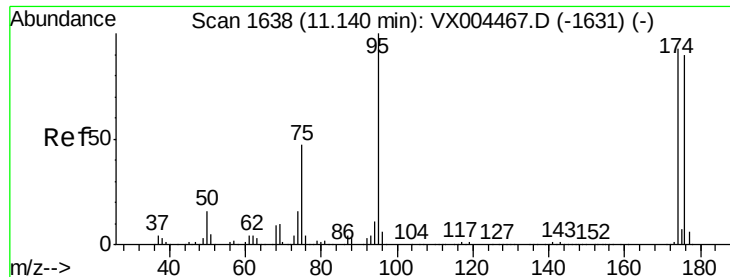
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.00 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

BPSI-TT-MW303D-20180912

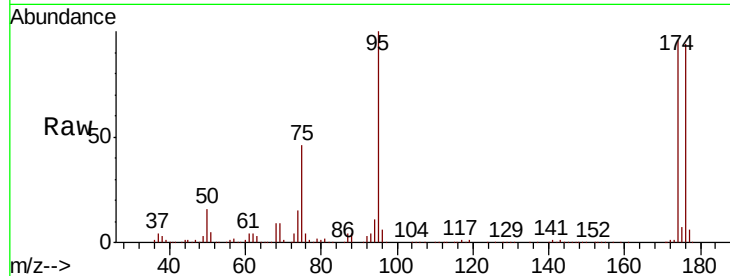
Tot Ion: 95 Resp: 181470

Ion Ratio Lower Upper

95 100

174 92.4 0.0 185.2

176 89.5 0.0 178.6

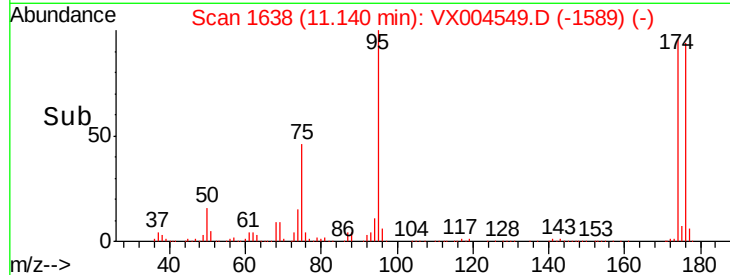


Abundance Ion 94.90 (94.60 to 95.60): VX004467.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004467.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004467.D (-1631) (-)

Time-->

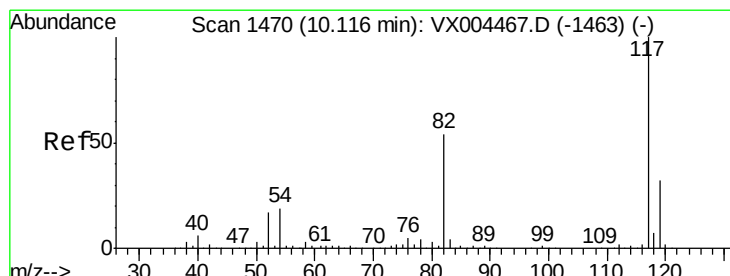


Abundance Ion 94.90 (94.60 to 95.60): VX004549.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX004549.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX004549.D (-1589) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

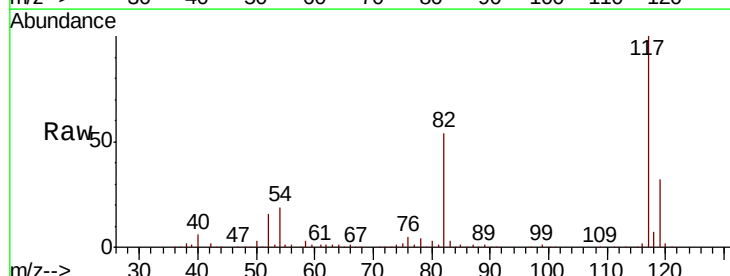
Tgt Ion: 117 Resp: 341860

Ion Ratio Lower Upper

117 100

82 53.9 47.8 71.6

119 32.3 29.3 43.9

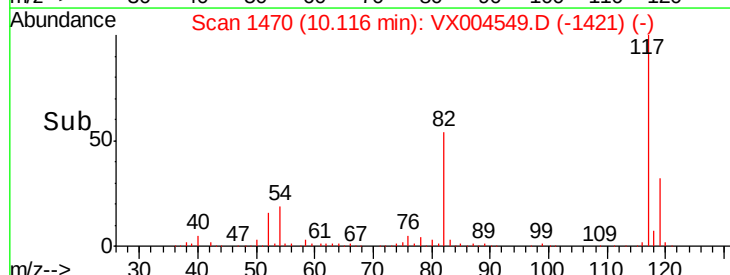


Abundance Ion 116.90 (116.60 to 117.60): VX004467.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004467.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004467.D (-1463) (-)

Time-->

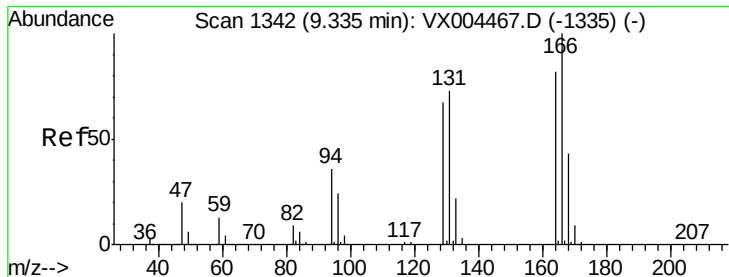


Abundance Ion 116.90 (116.60 to 117.60): VX004549.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX004549.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX004549.D (-1421) (-)

Time-->



#64

Tetrachloroethene

Concen: 0.26 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

Instrument :

MSVOA\_X

ClientSampleId :

BPSI-TT-MW303D-20180912

Tot Ion:164 Resp: 1091

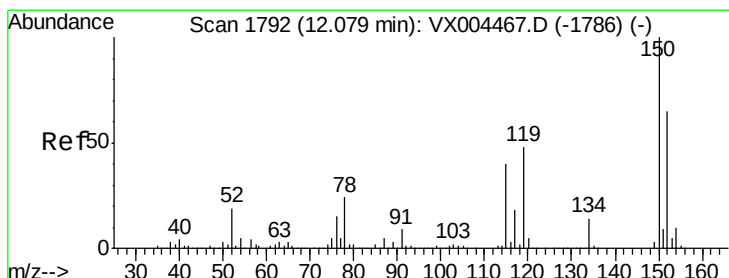
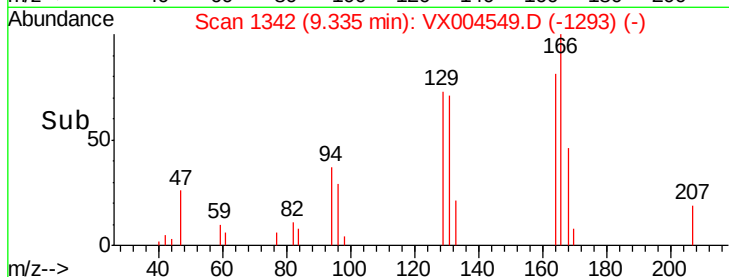
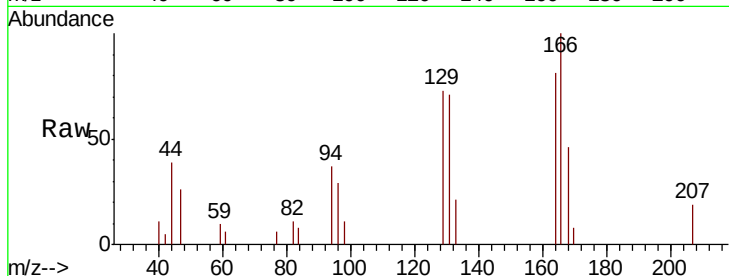
Ion Ratio Lower Upper

164 100

166 123.9 102.8 154.2

129 90.6 69.4 104.0

131 88.4 67.9 101.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004549.D

Acq: 14 Sep 2018 19:20

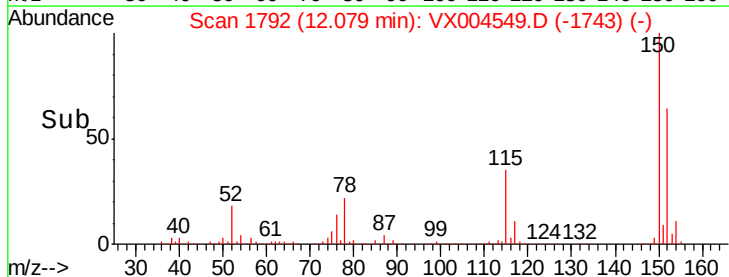
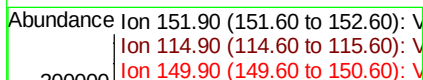
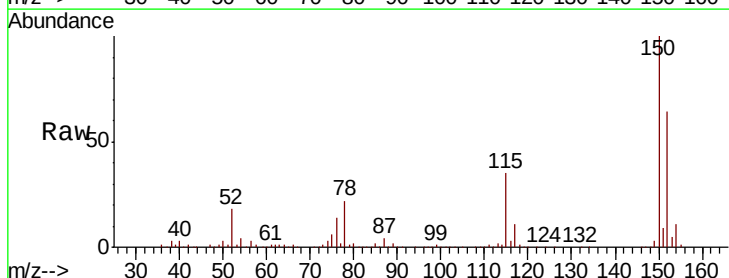
Tgt Ion:152 Resp: 189247

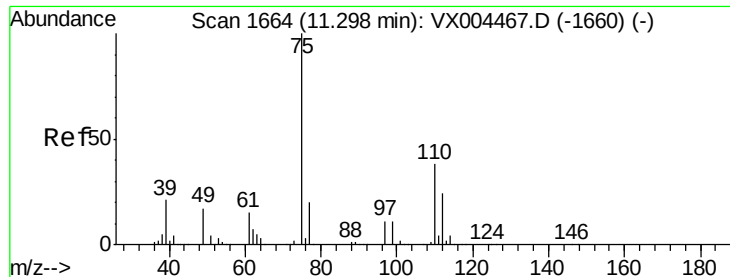
Ion Ratio Lower Upper

152 100

115 54.9 39.0 117.0

150 156.5 0.0 351.0

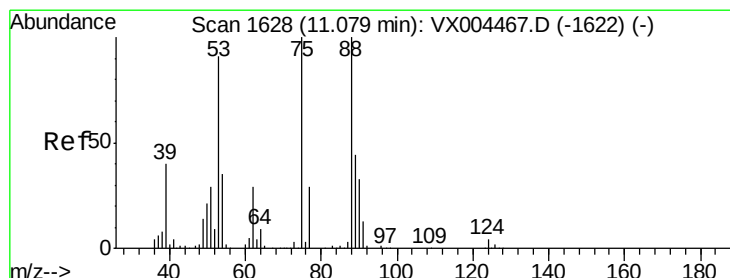
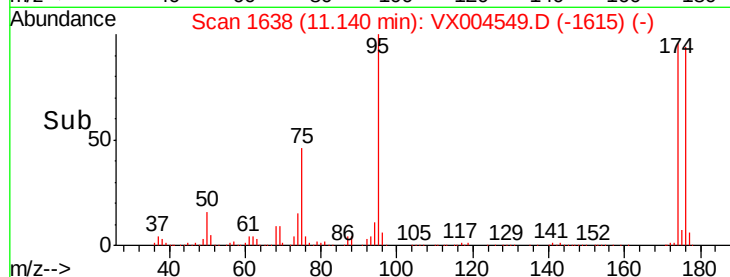
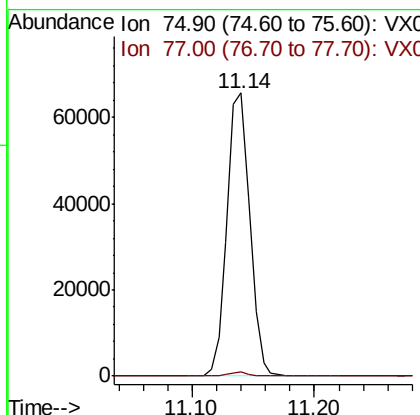
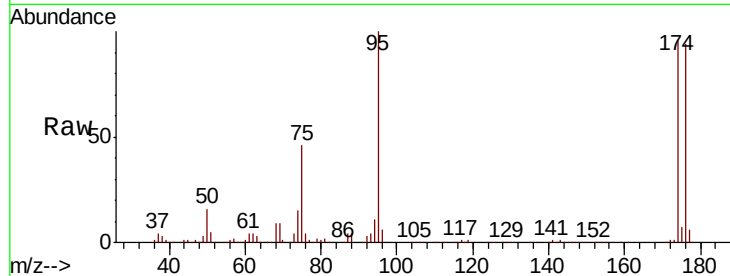




#76  
 1,2,3-Trichloropropane  
 Concen: 22.30 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. -0.16 min  
 Lab File: VX004549.D  
 Acq: 14 Sep 2018 19:20

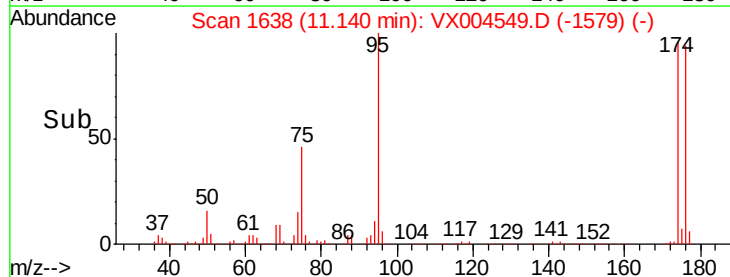
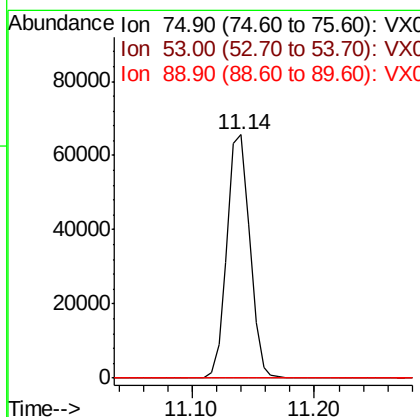
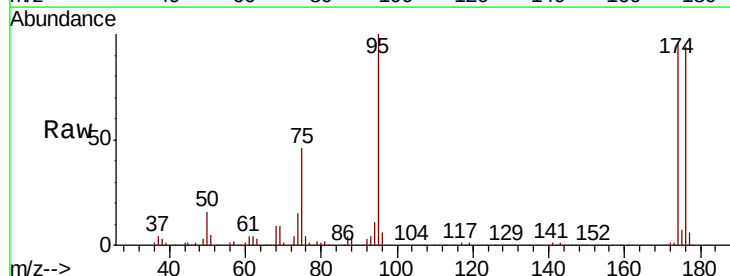
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BPSI-TT-MW303D-20180912

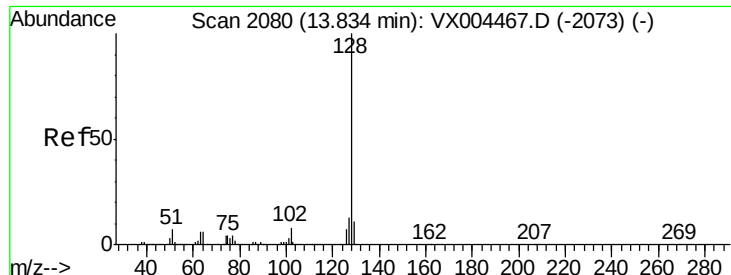
Tot Ion: 75 Resp: 84908  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 20.2 60.6#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 71.08 ug/l  
 RT: 11.14 min Scan# 1638  
 Delta R.T. 0.06 min  
 Lab File: VX004549.D  
 Acq: 14 Sep 2018 19:20

Tgt Ion: 75 Resp: 84908  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 80.1 120.1#  
 89 0.0 37.2 55.8#

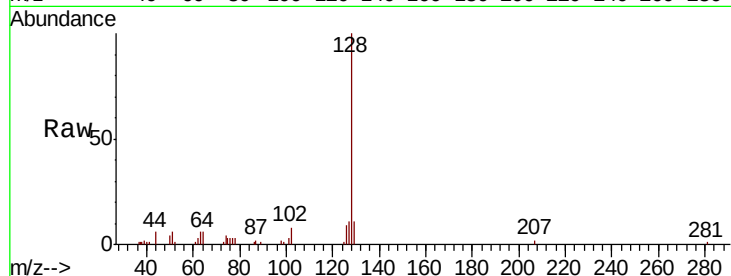




#95  
Naphthalene  
Concen: 0.84 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX004549.D  
Acq: 14 Sep 2018 19:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
BPSI-TT-MW303D-20180912

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 11.9  | 10.2  | 15.2  |
| 129     | 10.7  | 8.6   | 12.8  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

